

DLBS-9

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-17794

COUNTY - DADE

TOTAL DEPTH: 178 FT.

LOCATION: T.54S R.38E S.11 DD

SAMPLES - NONE

LAT = 25D 44M 51S

LON = 80D 29M 53S

COMPLETION DATE: 07/25/96

ELEVATION: 5 FT

OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WORKED BY: CINDY FISCHLER, 025-20 DLBS-9 SFWMD GEOPHY # 025080023
 SOUTH MIAMI NW FLA PLANAR X 665208 STATE COORD. Y 874218 ACTUAL FOOTAGE
 IS LESS THAN INTERVAL GIVEN. COMPLETED OCT. 1999

0. -172 . 121PCPC PLIOCENE-PLEISTOCENE
 172. - . 122HTRN HAWTHORN GROUP

0 - 1 LIMESTONE; YELLOWISH GRAY
 15% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
 GRAIN TYPE: CALCILUTITE, SKELETAL CRYSTALS
 60% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRANULE
 MODERATE INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: QUARTZ SAND- 5%, SPAR- 8%
 OTHER FEATURES: LOW RECRYSTALLIZATION
 FOSSILS: OOLITES

- 1 - 3 PEAT; GREENISH BLACK
 15% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
 MODERATE INDURATION
 CEMENT TYPE(S): ORGANIC MATRIX, CLAY MATRIX
 ACCESSORY MINERALS: SHELL-20%
 FOSSILS: MOLLUSKS
 MANY FRESHWATER GASTROPODS.

- 3 - 5 LIMESTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
 10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
 GRAIN TYPE: CALCILUTITE, OOLITE CLAST, CRYSTALS
 70% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
 MODERATE INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 FOSSILS: OOLITES, PLANT REMAINS
 ABOUT 50% OF INTERVAL IS PEAT AS ABOVE. LIMESTONE IS COATED
 WITH PEAT.

- 5 - 9 LIMESTONE; GRAYISH BROWN
 20% POROSITY: INTERGRANULAR, VUGULAR, MOLDIC
 GRAIN TYPE: CALCILUTITE, OOLITE CLAST, CRYSTALS
 80% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
 MODERATE INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND- 5%, SILT-15%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: OOLITES, PLANT REMAINS
LIMESTONE IS COATED WITH SANDY SILT. LARGE SOLUTION VOIDS
PRESENT. SILT INCREASES WITH DEPTH TO ABOUT 20%.

- 9 - 13 LIMESTONE; YELLOWISH GRAY TO GRAYISH ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: CALCILUTITE, OOLITE CLAST, SKELETAL
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
IRON CEMENT
SEDIMENTARY STRUCTURES: MOTTLED
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: OOLITES, MOLLUSKS, BENTHIC FORAMIFERA
PLANT REMAINS
SOME IRON STAINING. SOLUTION VOIDS ARE PRESENT. LITHOLOGY
VARIES: SOME OF THE LIMESTONE IS SANDY WITH OOLITIC
TEXTURE; IRON STAINED LIMESTONE IS MORE RECRYSTALLIZED AND
LESS OOLITIC.
- 13 - 15 WACKESTONE; VERY LIGHT ORANGE
5% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA
MANY OF THE ALLOCHEMS ARE RECRYSTALLIZED CLAM AND GASTROPOD
CAST.
- 15 - 35 LIMESTONE; WHITE TO YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, VUGULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELTAL CAST, PELLET
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: CRYPTOCRYSTALLINE TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-20%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, CRUSTACEA
GASTROPOD AND CLAM CAST. DRUSY CALCITE COATING ON SOME OF
THE PIECES. MEDIUM RECRYSTALLIZATION. FEW PIECES SPOTTED
WITH VERY FINE BLACK MATERIAL IN THE MATRIX MAY BE ORGANICS
OR IRON SULFIDE. HIGHLY MOLDIC TOWARD BOTTOM.
- 35 - 43 WACKESTONE; WHITE
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC

- 70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR- 5%, QUARTZ SAND-<5%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, OSTRACODS
MILIOLIDS, CRUSTACEA
CLAM AND GASTROPOD CAST AND MOLDS. MEDIUM TO POOR
INDURATION. ABOUT 5% SHELL FRAGMENTS SOME ARE
RECRYSTALLIZED.
- 43 - 50 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE, SKELTAL CAST, CRYSTALS
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, WORM TRACES
ABUNDANT CLAM AND GASTROPOD MOLDS. INCREASE IN
RECRYSTALLIZATION TOWARD BOTTOM ABOUT 15% SPAR. NOT QUITE
AS MOLDIC TOWARD BOTTOM.
- 50 - 57 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE CRYSTALS, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-15%, QUARTZ SAND-40%, SHELL-15%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES
LITHOLOGY VARIES: SANDY, SHELLY LIMESTONE TO CALCAREOUS
SHELLY SANDSTONE. SAND IS PREDOMINANTLY MEDIUM TO COARSE
GRAINED. FEW PIECES APPEAR TO BE SANDY CONCRETIONS - THIS
SAND IS FINE GRAINED. LOOSE SHELL FRAGMENTS TOWARD BOTTOM.
- 57 - 80 SHELL BED; MODERATE LIGHT GRAY TO LIGHT GRAY
30% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-15%, SPAR- 5%
FOSSILS: MOLLUSKS, BARNACLES
GASTROPS. SHELL FRAGMENTS ARE LARGE UP TO 5CM. LARGE
BARNACLES ARE PRESENT (1CM).
- 80 - 93 SHELL BED; YELLOWISH GRAY TO LIGHT OLIVE GRAY
30% POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-30%, PHOSPHATIC SAND- 3%
FOSSILS: MOLLUSKS, BARNACLES, ECHINOID, BRYOZOA
GASTROPODS. SHELL FRAGMENTS ARE SMALLER THAN PREVIOUS. SAND
IS POORLY SORTED. 70% OF INTERVAL IS LOOSE SHELL BED
REMAINING PART IS SHELL, SAND, AND CALCILUTITE WITH MEDIUM

INDURATION.

- 93 - 101 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, SKELTAL CAST
95% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-35%, PHOSPHATIC SAND- 3%
SHELL-50%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, BENTHIC FORAMINIFERA, BRYOZOA
BARNACLES
GASTROPOD AND CLAM CAST. MOST SHELL MATERIAL IS FINELY
GROUND. ABOUT 50% OF INTERVAL IS LOOSE SHELL FRAGMENTS FROM
97-101FT.
- 101 - 130 SHELL BED; YELLOWISH GRAY TO MODERATE LIGHT GRAY
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: LIMESTONE-15%, QUARTZ SAND-10%
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES, BRYOZOA
GASTROPODS, MANY TURRITELLA. LIMESTONE IS VERY SANDY AND
SHELLY "COQUINA LIKE". LIMESTONE DECREASES TO A TRACE
TOWARD BOTTOM. ABOUT 10% SHELLY, CALCAREOUS SANDSTONE WITH
POOR INDURATION.
- 130 - 132 LIMESTONE; YELLOWISH GRAY
25% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SILT-10%, SHELL-35%, QUARTZ SAND-30%
PHOSPHATIC SAND-<2%
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES
GASTROPODS.
- 132 - 145 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-30%, QUARTZ SAND-40%
PHOSPHATIC SAND-<2%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, CORAL, WORM TRACES
BENTHIC FORAMINIFERA, BRYOZOA
TURRITELLA MOLDS AND OTHER VERY LARGE MOLDS. LITHOLOGY
VARIES: SHELLY, SANDY LIMESTONE TO SHELLY, CALCAREOUS
SANDSTONE. SOME PARTS OF THIS INTERVAL ARE "COQUINA LIKE".

MANY WORM TRACES. POSSIBLE STORM DEPOSIT. POORLY SORTED.

145 - 172 SHELL BED; VERY LIGHT ORANGE TO YELLOWISH GRAY
UNCONSOLIDATED
FOSSILS: MOLLUSKS, BARNACLES, BRYOZOA, ECHINOID
GASTROPODS. 10-15% OF INTERVAL IS SMALL PIECES OF
PHOSPHATIC, CALCAREOUS SANDSTONE. SANDSTONE DECREASES WITH
DEPTH.

172 - 175 SAND; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: FINE TO GRAVEL
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SHELL-35%, PHOSPHATIC SAND- 2%
SILT-15%
FOSSILS: MOLLUSKS, BARNACLES, BRYOZOA, ECHINOID
SHELL ENCRUSTED WITH BRYOZOAN.

175 TOTAL DEPTH

DRAFT